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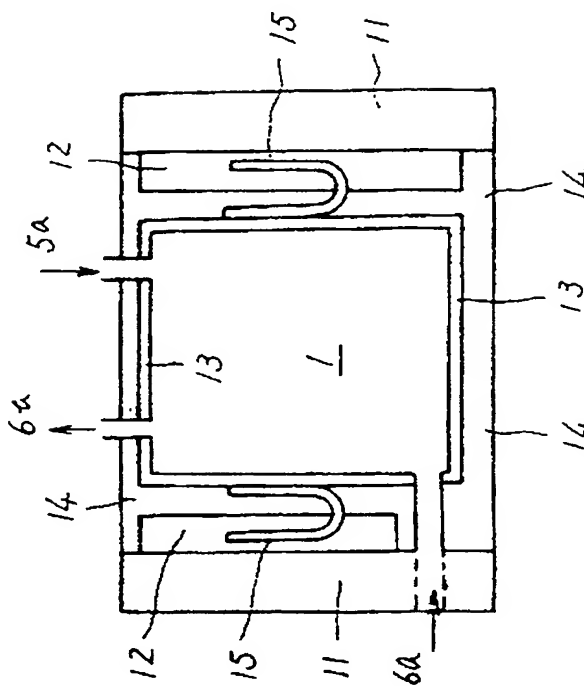
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APPLICANT : HITACHI LTD;

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TITLE : FUEL CELL



ABSTRACT : PURPOSE: To enable the cooling performance of a fuel cell to be changed automatically without using any pumps or fans by installing a radiator plate facing a heat-collecting metallic body formed on the surface of the fuel cell body and installing bimetals between the metallic body and the radiator plate.

CONSTITUTION: After a metallic body 13 is affixed to the surface of a cell body 1, the whole body is covered with a heat insulator 14. Ends of U-shaped bimetals 15 are fixed to two surfaces of the metallic body 13 by brazing. The other free ends of the bimetals 15 are located in a space 12 formed by the heat insulator 14 and a radiator plate 11. The material and the shape of the bimetals 15 are selected so that the free ends of the bimetals 15 touch the radiator plate 11 when the temperature exceeds a given level. Owing to the above constitution, temperature increase of the battery is accelerated by reducing its heat radiation when the battery is started at low temperature and the cooling performance of the battery is increased after its temperature reaches a given level, thereby achieving controlling of the temperature increase.

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